Attachment 6

Budget

The total project cost for the *Development and Use of a Numerical Groundwater-Flow Model of the Six Basins* is $529,856. The TVMWD is requesting grant funds in the amount of $250,000. A local cost-share of $279,856 will be provided by the Six Basins Watermaster. The Six Basins Watermaster will be preparing their annual assessment for Calendar Year 2013 beginning in August 2012 and will be including a capital project assessment in the amount of $300,000 in anticipation of the project.

A summary table of the budget including the total cost, the requested grant funds, and the local cost-share by task is shown in Table 1. A line-item budget is shown in Table 2 and can be compared to the work plan (Attachment 5) by task and sub-task.

Table 1

Budget Summary

Development and Use of a Numerical Groundwater-Flow Model of the Six Basins

Task Description	Requested Grant Funding	Local Cost-Share[1]	Total Cost
Task 1 -- Develop a Conceptual Model of the Six Basins Area	$99,285	$111,143	$210,428
Task 2 -- Build and Calibrate the Numerical Groundwater-Flow Model	$44,474	$49,786	$94,260
Task 3 -- Develop and Evaluate the Baseline Alternative	$33,962	$38,018	$71,980
Task 4 -- Develop and Evaluate Four Alternatives of the Strategic Plan	$34,585	$38,715	$73,300
Task 5 -- Prepare Final Report	$12,862	$14,398	$27,260
Task 6 -- Project Administration	$24,831	$27,797	$52,628
Total Project Cost	**$250,000**	**$279,856**	**$529,856**

1- The local cost-share for the project will be provided by the Six Basins Watermaster.

Table 2

Line-Item Budget

Development and Use of a Numerical Groundwater-Flow Model of the Six Basins

Description	Labor										Other Direct Charges					Total Program Costs	
	Principal III	Principal II	Supervising I	Senior I	Staff I	Eng. Tech	Office Admin	Total Labor			Travel	Sub-consultant	Reproduction	Total ODCs			
								Person Days	Cost								
									Task	Project				Task	Project	Task	Project
Task 1 -- Develop a Conceptual Model of the Six Basins Area										***$210,100***					***$328***		***$210,428***
1.1 Collect, compile, and review all relevant reports, data, and information		2		5		5		12	$14,040		$128			$128		$14,168	
1.2 Collect and analyze existing models of Six Basins and Chino Basin		2						2	$3,440							$3,440	
1.3 Identify the calibration period		1						1	$1,720							$1,720	
1.4 Characterize the hydrogeologic framework and aquifer properties	0.5	3		9	9			21.5	$26,960							$26,960	
1.5 Estimate groundwater production for the calibration period		4						4	$6,880							$6,880	
1.6 Characterize boundary conditions and the hydrologic budget	2	40		25				67	$103,480							$103,480	
1.7 Describe groundwater flow systems		2		5				7	$9,640							$9,640	
1.8 Characterize the initial conditions for the calibration period		2		2				4	$5,920							$5,920	
1.9 Prepare Task 1 Report -- Conceptual Model Report	0.5	10	5	5	5	1	0.25	26.75	$38,020				$200	$200		$38,220	
Task 2 -- Build and Calibrate the Numerical Groundwater-Flow Model										***$94,060***					***$200***		***$94,260***
2.1 Build numerical model from conceptual model		15						15	$25,800							$25,800	
2.2 Perform steady-state calibration of the model	0.5	10						10.5	$18,120							$18,120	
2.3 Perform transient calibration of the model	0.5	10						10.5	$18,120							$18,120	
2.4 Prepare Task 2 Report -- Build and Calibrate Model	0.5	10	2	8		1	0.25	21.75	$32,020				$200	$200		$32,220	
Task 3 -- Develop and Evaluate the Baseline Alternative										***$71,780***					***$200***		***$71,980***
3.1 Establish the planning period		1						1	$1,720							$1,720	
3.2 Estimate the hydrologic budget of the planning period	1	5						6	$10,440							$10,440	
3.3 Describe the Baseline Alternative	0.5	5	2					7.5	$12,400							$12,400	
3.4 Evaluate the Baseline Alternative		5						5	$8,600							$8,600	
3.5 Prepare Task 3 Report -- Evaluation of the Baseline Alternative	0.5	10	8	2	5	1	0.25	26.75	$38,620				$200	$200		$38,820	
Task 4 -- Develop and Evaluate Four Alternatives of the Strategic Plan										***$73,100***					***$200***		***$73,300***
4.1 Describe four project alternatives of the Strategic Plan	1	5	5					11	$17,640							$17,640	
4.2 Evaluate the four project alternatives of the Strategic Plan	0.5	10	5					15.5	$25,320							$25,320	
4.4 Prepare Task 4 Report -- Evaluation of the Project Alternatives of the Strategic Plan	0.5	8	6	2	3	1	0.25	20.75	$30,140				$200	$200		$30,340	
Task 5 -- Prepare Final Report										***$24,760***					***$2,500***		***$27,260***
5.1 Prepare model documentation		1						1	$1,720							$1,720	
5.2 Prepare draft and final reports	0.5	4	5		5	2	1	17.5	$23,040				$2,500	$2,500		$25,540	
Task 6 -- Project Administration										***$45,860***					***$6,768***		***$52,628***
6.1 Prepare for and attend 12 monthly Strategic Plan workshops		12						12	$20,640		$768			$768		$21,408	
6.2 Technical Review Committee	2	2.5						4.5	$7,980		$1,000	$4,000		$5,000		$12,980	
6.3 Prepare for and attend two association meetings to describe project results		2						2	$3,440		$1,000			$1,000		$4,440	
6.4 Prepare quarterly progress reports and final report for the DWR		3	6					9	$13,800							$13,800	
TOTALS	***11***	***184.5***	***44***	***63***	***27***	***11***	***2***	***342.5***		***$519,660***	***$2,896***	***$4,000***	***$3,300***		***$10,196***		***$529,856***